



MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

☒ APPLICATION TO DRILL ☐ DEEPEN ☐ PLUG BACK ☐ FOR AN OIL WELL ☒ OR GAS WELL

NAME OF COMPANY OR OPERATOR Osborn Energy, L.L.C.		DATE May 7, 2002	
ADDRESS 24850 Farley	CITY Bucyrus	STATE Kansas	ZIP CODE 66013
DESCRIPTION OF WELL AND LEASE			
NAME OF LEASE Osborn	WELL NUMBER 1 - 9	ELEVATION (GROUND) 968'	
WELL LOCATION (GIVE FOOTAGE FROM SECTION LINE) 365 FT. FROM (N)(S) SECTION LINE 240 FEET FROM (E) (W) SECTION LINE			
SECTION 9	TOWNSHIP T43N	RANGE R33W	COUNTY Cass
NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE 240' FEET			
DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED — FOR WELL ON THE SAME LEASE 0 FEET			
PROPOSED DEPTH 900'	DRILLING CONTRACTOR, NAME AND ADDRESS Layne Christensen Company; 1345 Highfield Crescent South East Calgary, Alberta, T2G 5N2		APPROX. DATE WORK WILL START May 8, 2002
NUMBER OF ACRES IN LEASE 9,013	NUMBER OF WELLS ON LEASE, INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR 1		
IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?		NO. OF WELLS: PRODUCING _____ INJECTION _____ INACTIVE _____ ABANDONED _____	
NAME _____ ADDRESS _____			
STATUS OF BOND <input type="checkbox"/> SINGLE WELL AMOUNT \$ _____		<input checked="" type="checkbox"/> BLANKET BOND AMOUNT \$ 30,000 <input checked="" type="checkbox"/> ON FILE <input type="checkbox"/> ATTACHED	

REMARKS: (IF THIS IS AN APPLICATION TO DEEPEN OR PLUG BACK, BRIEFLY DESCRIBE WORK TO BE DONE, GIVING PRESENT PRODUCING ZONE AND EXPECTED NEW PRODUCING ZONE; USE BACK OF FORM IF NEEDED.)

PROPOSED CASING PROGRAM				APPROVED CASING — TO BE FILLED IN BY STATE GEOLOGIST			
AMOUNT	SIZE	WT/FT	CEM.	AMOUNT	SIZE	WT/FT	CEM.
20'	10 3/4"	32 lbs.	20' - Surface	20'	10 3/4"	32 lbs	To Surface
800'	7"	20 lbs.	800' - Surface	800' *	7"	20 lbs	To to surface
				* To within 10' of bottom. Amt depends depth to Mississippi.			

I, the undersigned, state that I am the **Staff Geologist** of the **Osborn Energy, L.L.C.** (company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct, and complete to the best of my knowledge.

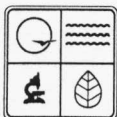
SIGNATURE <i>R. R. [Signature]</i>	DATE 5/7/02
PERMIT NUMBER 20720	<input checked="" type="checkbox"/> DRILLER'S LOG REQUIRED <input checked="" type="checkbox"/> E-LOGS REQUIRED IF RUN <input checked="" type="checkbox"/> CORE ANALYSIS REQUIRED IF RUN <input checked="" type="checkbox"/> DRILL STEM TEST INFO. REQUIRED IF RUN <input type="checkbox"/> SAMPLES REQUIRED <input checked="" type="checkbox"/> SAMPLES NOT REQUIRED <input type="checkbox"/> WATER SAMPLES REQUIRED AT _____
APPROVAL DATE 5-7-02	
APPROVED BY <i>James W. [Signature]</i>	

NOTE ▶ THIS PERMIT NOT TRANSFERABLE TO ANY OTHER PERSON OR TO ANY OTHER LOCATION

APPROVAL OF THIS PERMIT BY THE OIL AND GAS COUNCIL DOES NOT CONSTITUTE ENDORSEMENT OF THE GEOLOGIC MERITS OF THE PROPOSED WELL NOR ENDORSEMENT OF THE QUALIFICATIONS OF THE PERMITTEE.

I, _____ of the _____ Company confirm that an approved drilling permit has been obtained by the owner of this well. Council approval of this permit will be shown on this form by presence of a permit number and signature of authorized council representative.

DRILLER'S SIGNATURE	DATE
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STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

RECEIVED

FORM OGC-5

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

☐ NEW WELL ☒ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ INJECTION ☐ SAME RESERVOIR ☐ DIFFERENT RESERVOIR ☒ OIL ☐ GAS ☐ DRY

OWNER: Osborn Energy, LLC ADDRESS: 24850 Farley, Bucyrus, KS 66013

LEASE NAME: Osborn WELL NUMBER: 1-9

LOCATION OF WELL: Sec. 9 Twp 43 North, Rng 33 ☐ East ☒ West OR 365 ft. from ☐ North ☒ South 240 ft. from ☒ East ☐ West

COUNTY: Cass PERMIT NUMBER (OGC-3 OR OGC-31): 20720

DATE SPUDDED: 5/10/2002 DATE TOTAL DEPTH REACHED: 5/12/2002 DATE COMPLETED READY TO PRODUCE OR INJECT: 10/15/2006 ELEVATION (DF, RKR, RT, OR Gr.) FEET: 968 ELEVATION OF CASING HD. FLANGE FEET:

TOTAL DEPTH: 776' PLUG BACK TOTAL DEPTH: None

PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION: 238-254 ROTARY TOOLS USED (INTERVAL) 9 TO 226 DRILLING FLUID USED AIR CABLE TOOLS USED (INTERVAL)

WAS THIS WELL DIRECTIONALLY DRILLED? ☐ Yes ☒ No WAS DIRECTIONAL SURVEY MADE? ☐ Yes ☒ No WAS COPY OF DIRECTIONAL SURVEY FILED? ☐ Yes ☒ No DATE FILED:

TYPE OF ELECTRICAL OR OTHER LOGS RUN (JUST LOGS FILED WITH THE STATE GEOLOGIST): Dual Induct/Comp Density Neutron DATE FILED: 05/13/2002

CASING RECORD

CASING (REPORT ALL STRINGS SET IN WELL - CONDUCTOR, SURFACE, INTERMEDIATE, PRODUCING, ETC.)

PURPOSE	SIZE HOLE DRILLED	SIZE CASING SET	WEIGHT (LB. FT)	DEPTH SET	SACKS CEMENT	AMOUNT PULLED
surface	13 1/4"	10 3/4"	40	20'	14	
production	9 7/8"	5 1/2"	15	540'	128	

TUBING RECORD

LINER RECORD

SIZE	DEPTH SET	PACKER SET AT	SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
INCH	FEET	FEET	INCH	FEET	FEET		FEET

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

NUMBER PER FOOT	SIZE AND TYPE	DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL
2	3 3/8" DP	424-438	75gal/15%HCL/10000#	424-438
2	3 3/8" DP	450-470		450-470

INITIAL PRODUCTION

DATE OF FIRST PRODUCTION OR INJECTION: 10/30/2006 PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING - IF PUMPING, SHOW SIZE AND TYPE OF PUMP.): Pumping - 1 1/2" Insert BBL

DATE OF TEST: DATE OF TEST: 24 HOURS TESTED: CHOKE SIZE: OIL PRODUCED DURING TEST: 0 BBLS GAS PRODUCED DURING TEST: MCF WATER PRODUCED DURING TEST: 10 BBLS OIL GRAVITY: API (CORR.):

TUBING PRESSURE: CASING PRESSURE: CALCULATED RATE OF PRODUCTION PER 24 HOURS: OIL: 0 BBLS GAS: MCF WATER: 10 BBLS GAS OIL RATIO:

DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD)

METHOD OF DISPOSAL OF MUD PIT CONTENTS

LET WATER EVAPORATE AND USE BULLDOZER TO BACKFILL PIT

CERTIFICATE: I, the Undersigned, state that I am the Agent of the OELLC (Company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

DATE: May 22, 2007 SIGNATURE: [Signature]



MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL
WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

Form OGC-5

☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ INJECTION ☐ SAME RESERVOIR ☐ DIFFERENT RESERVOIR ☐ OIL ☒ GAS ☐ DRY

OWNER Osborn Energy, L.L.C.		ADDRESS 24850 Farley, Bucyrus, Kansas 66013	
LEASE NAME Osborn		WELL NUMBER 1-9	
LOCATION 365 FSL & 240 FEL		SEC. TWP. AND RANGE OR BLOCK AND SURVEY 9 -T43N-R33W	
COUNTY Cass	PERMIT NUMBER (OGC-3 OR OGC-31) 20720		
DATE SPUDDED 5/10/2002	DATE TOTAL DEPTH REACHED 5/12/2002	DATE COMPLETED READY TO PRODUCE OR INJECT waiting on completion	ELEVATION (DF, RKR, RT, OR ^{Gr}) FEET 968'
TOTAL DEPTH 776'		ELEVATION OF CASING HD. FLANGE N/A FEET	
PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION Undetermined		ROTARY TOOLS USED (INTERVAL) 0' to 776' DRILLING FLUID USED air & water	
CABLE TOOLS USED (INTERVAL) N/A		DATE FILED N/A	
WAS THIS WELL DIRECTIONALLY DRILLED? NO	WAS DIRECTIONAL SURVEY MADE? NO	WAS COPY OF DIRECTIONAL SURVEY FILED? N/A	DATE FILED 5/13/2002
TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST) Dual Induction & Compensated Density Neutron Log			

CASING RECORD

CASING (REPORT ALL STRINGS SET IN WELL - CONDUCTOR, SURFACE, INTERMEDIATE, PRODUCING, ETC.)

PURPOSE	SIZE HOLE DRILLED	SIZE CASING SET	WEIGHT (LB. FT)	DEPTH SET	SACKS CEMENT	AMOUNT PULLED
Surface	13"	10 3/4"	32	21'	14	0
Production	8 3/4"	N/A	N/A	N/A	N/A	0

TUBING RECORD

LINER RECORD

SIZE	DEPTH SET	PACKER SET AT	SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
IN.	FEET	FEET	INCH	FEET	FEET	FEET	FEET

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

NUMBER PER FEET	SIZE AND TYPE	DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL

INITIAL PRODUCTION

DATE OF FIRST PRODUCTION OR INJECTION Waiting on completion		PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING — IF PUMPING, SHOW SIZE AND TYPE OF PUMP.) Temporarily Capped					
DATE OF TEST N/A	HOURS TESTED N/A	CHOKE SIZE N/A	OIL PRODUCED DURING TEST N/A bbls.	GAS PRODUCED DURING TEST N/A MCF	WATER PRODUCED DURING TEST N/A bbls.	OIL GRAVITY N/A API (CORR.)	
TUBING PRESSURE N/A	CASING PRESSURE N/A	CALCULATED RATE OF PRODUCTION PER 24 HOURS N/A		OIL N/A bbls.	GAS N/A MCF	WATER N/A bbls.	
GAS OIL RATIO N/A							

DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD)

Temporarily Capped

METHOD OF DISPOSAL OF MUD PIT CONTENTS

Let water evaporate then use bulldozer to backfill pit

CERTIFICATE: I, THE UNDERSIGNED, STATE THAT I AM THE Geologist OF THE Osborn Energy, L.L.C. COMPANY, AND THAT I AM AUTHORIZED BY SAID COMPANY TO MAKE THIS REPORT, AND THAT THIS REPORT WAS PREPARED UNDER MY SUPERVISION AND DIRECTION AND THAT THE FACTS STATED THEREIN ARE TRUE, CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DATE 6-4-02	SIGNATURE
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Drillers Log

Osborn #1-9

365' FSL, 240' FEL

Section 9-T43N-R33W

Cass Co., MO

OGC # 20720

Elevation: 968 GL, 971 KB (est. from Topo Map)

Drilling Contractor: Layne Energy

Spud: 5/10/2002

Surface: 10.75" csg set at 21', cmt'd w/ 14sx

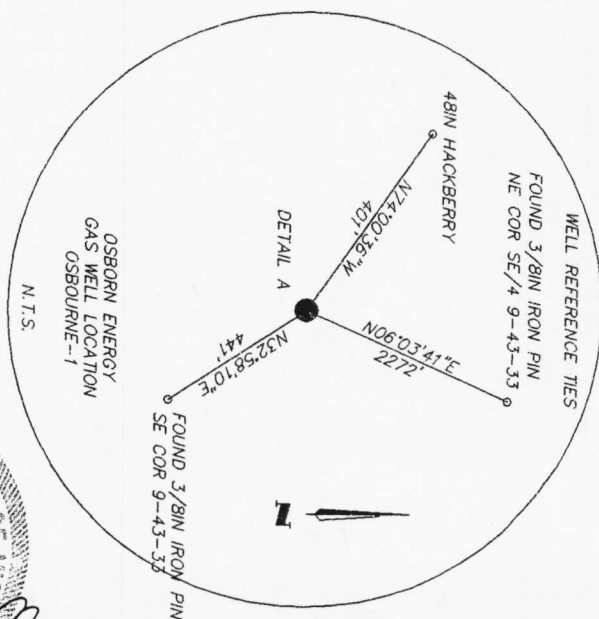
Core Hole Total Depth: 756'

Rotary Total Depth: 776' (drlg 20' deeper after reaming)

Bore Hole: 8 3/4", after reaming

Drilling Fluid: Air, mudded up to log (chemical/gel)

10 Soil and Limestone Rubble	504 Shale, black
49 Limestone	565 Shale
54 Shale, black	574 Shale, black
80 Limestone	606 Sand and sandy shale
84 Shale, black	622 Shale, dark gray and black
94 Limestone	662 Shale and sandy shale
98 Shale, dark gray	668 Sand (no show)
102 Limestone and shale	676 Shale, dark gray and black
208 Shale and sandy shale	710 Sand and shale (no show)
210 Shale, black	718 Shale, dark
238 Sandy shale	732 Real sandy shale
242 Shale, black	742 Shale, dark
280 Sand and shale	746 Limestone and flint rock
290 Shale, dark gray	776 Limestone
296 Limestone	776 Total Depth
310 Lime and shale	
322 Limestone	
338 Sandy shale	
342 Limestone, hard	
348 Shale, black	
356 Sandy shale	
389 Limestone	
393 Shale, black	
408 Lime and shale	
412 Shale, black	
473 Sand and shale breaks (light shows of oil)	
490 Shale, dark gray	
494 Shale, black	
500 Limestone and shale	




LEGEND:

● 15_E -- IRON BAR EXISTING

- PROPOSED GAS WELL

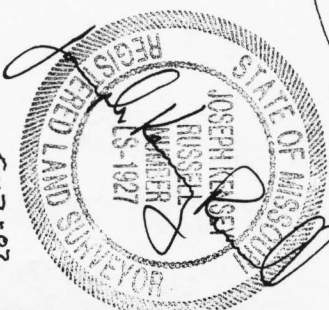
This is to certify that to the best of my knowledge and belief this map accurately represents the results of a survey performed on 05/05/2002.

By:  DATE: 5-7-02

Joseph Kenney Russell, Missouri R.S. # 1927
Shuler Kline & Warren, Inc. LS DB0603

Original Signature in a color other than black.

1. THIS IS NOT A BOUNDARY SURVEY. IT IS FOR PROPOSED GAS WELL LOCATION.
2. GROUND ELEVATIONS AT WELL LOCATIONS INTERPOLATED FROM USGS FREEMAN, MO-KANS. QUADRANGLE MAP NGVD 1929



5-7-02

OSBORN ENERGY
GAS WELL LOCATION

OSBORN-1 SITE
CASS COUNTY, MISSOURI

SHAFFER, KLINE & WARREN, INC.

921 Jackson Street, Chillicothe, MO 64601
660/646-9788 Fax: 660/646-9791

OTHER OFFICE LOCATIONS:

Overland Park, KS

Macon, MO
Kansas City, MO



CIVIL ENGINEERS • ELECTRICAL ENGINEERS • MECHANICAL ENGINEERS • LANDSCAPE ARCHITECTS • LAND SURVEYORS • LAND PLANNERS

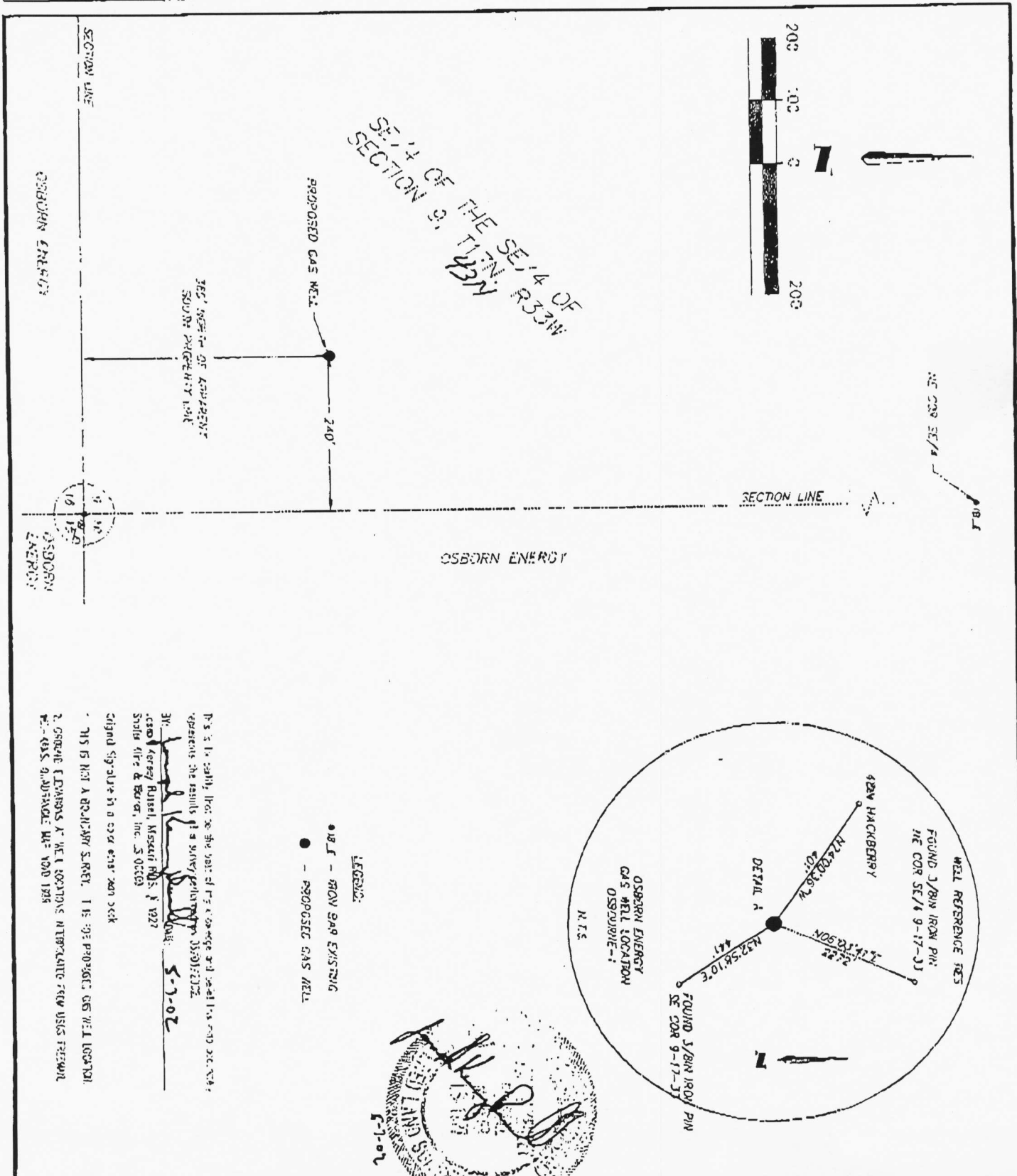
Designed By _____
 Drawn By TRM
 Checked By KPS
 Issue Date: 05/2007
 Job No. 302801

5				
4				
3				
2				
1				
NO.	DATE	REVISIONS	BY	APP'D
COPYRIGHT © -2002-SHAFFER, KLINE & WARREN, INC.				

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037-20720
Osborn 1-9

DATE	TIME	BY
05/07/02	11:52	SKW



SHEET NO. 00201	OSBORN ENERGY GAS WELL LOCATION	SHAFER, KLINE & WARREN, INC. 111 Jackson Street, Chillicothe, MO 64601 816/646-9791 (In MO 816/646-0791) OSBORN ENERGY LOCATION BPO. KS Chillicothe, MO	Designed By: _____ Drawn By: _____ Checked By: _____ Date: _____ Scale: _____ Date: _____	NO. _____ DATE _____ BY _____ CHECKED BY _____
	OSBORN-1 SITE CASS COUNTY, MISSOURI		COPYRIGHT © -2002-SHAFER, KLINE & WARREN, INC.	

RECEIVED

CONSOLIDATED OIL WELL SERVICES, INC.
P.O. BOX 884, CHANUTE, KS 66720
620-431-9210 OR 800-467-8676

MAY 25 2007

TICKET NUMBER 08839

LOCATION Ottawa

FOREMAN Alan Mader

Mo Oil & Gas Council

TREATMENT REPORT & FIELD TICKET CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-4-06	6073	Osborn 1-9	9	34	33	Cass Mo
CUSTOMER <u>Osborn Energy</u>						
MAILING ADDRESS <u>24850 Farley</u>						
CITY <u>Bucyrus</u>	STATE <u>KS</u>	ZIP CODE <u>66013</u>	TRUCK #	DRIVER	TRUCK #	DRIVER
			389	Alamap		
			164	Ric Arb		
			122	Ken Hamie		

JOB TYPE long string HOLE SIZE 7 7/8 HOLE DEPTH 550 CASING SIZE & WEIGHT 5 1/2
CASING DEPTH 536 DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Washed 7 joints of casing in. Established circulation
Mixed & pumped 200# gel to flush hole. Mixed & pumped 7
661 dye marker followed by 131 5x 50/50 poz, 29 gel
Circulated dye to surface. Flushed pump clean.
pumped 5 1/2 plug to casing TD. Checked depth with wire-
line. Set float.

Customer supplied water

Alan Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE 1641		800.00
5406	15	MILEAGE 1641		47.25
5402	536'	casing footage 164		NIC
5407A		ten miles 50 miles 122		292.29
5609	1	pump truck wash time 164		152.00
1118B	462#	gel		64.68
1124	1285x	50/50 poz		1132.80
4426	1	5 1/2 plug		56.00
		Sub		2545.02
		6.8%	SALES TAX	85.24
			ESTIMATED TOTAL	2630.26

AUTHORIZATION

WO# 209694

TITLE

Alan Mader

DATE _____

RECEIVED MAY 16 2002

Letter of Transmittal



Shetlar Griffith Shetlar

A Division of Shafer, Kline & Warren, Inc.

216 N. Jefferson

Iola, KS 66749

Phone: 620-365-5101

Fax: 620-365-6828

TO: Missouri Department of Natural
Resources
P.O. Box 250
Rolla, MO 65020

locations

Date: May 13, 2002

Attn: Sherri Stoner

Regarding: Osborn Energy Gas well

We are sending you: Copy of signed survey site plans.

Description: Osborn - 1 and Smith - 1

Remarks: These were FAXed to you previously

Copy To:

SENT BY: Kenneth Shetlar